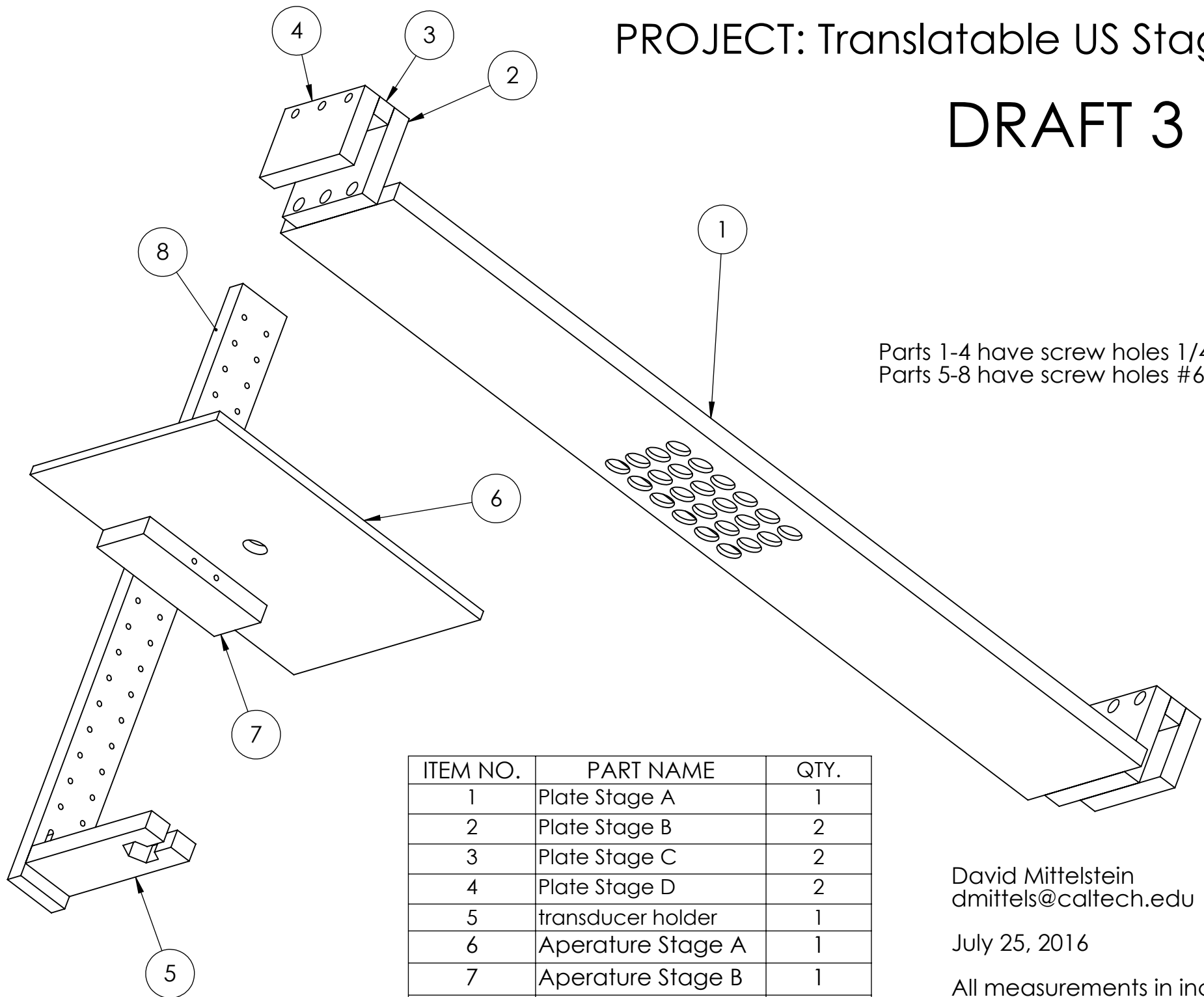


PROJECT: Translatable US Stage

DRAFT 3

Parts 1-4 have screw holes 1/4"-20
Parts 5-8 have screw holes #6-32



ITEM NO.	PART NAME	QTY.
1	Plate Stage A	1
2	Plate Stage B	2
3	Plate Stage C	2
4	Plate Stage D	2
5	transducer holder	1
6	Aperature Stage A	1
7	Aperature Stage B	1
8	translator	1

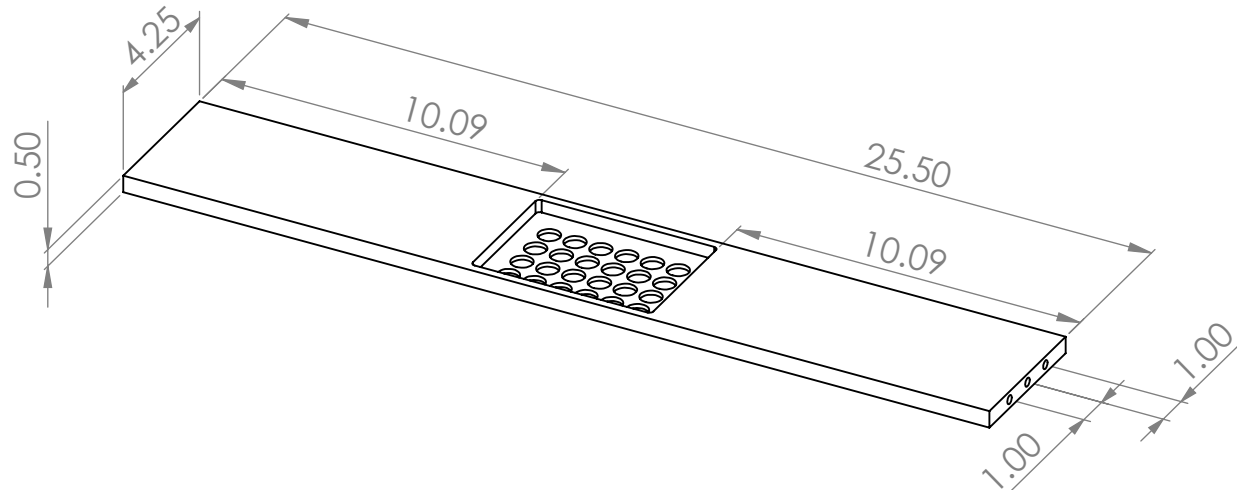
David Mittelstein
dmittels@caltech.edu

July 25, 2016

All measurements in inches

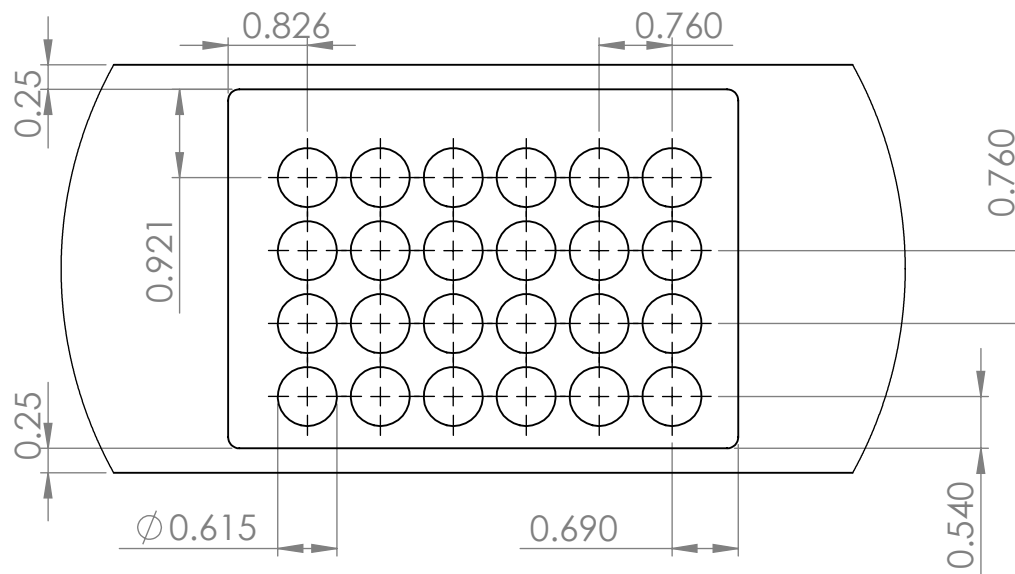
PART NAME: Stage A

QUANTITY DESIRED: 1



Threaded for 1/4"-20 screws
Depth 2", also present
on opposite side

Cut this rectangle into the piece until 1/8" of metal remains, the circular holes are evenly spaced and cut through all

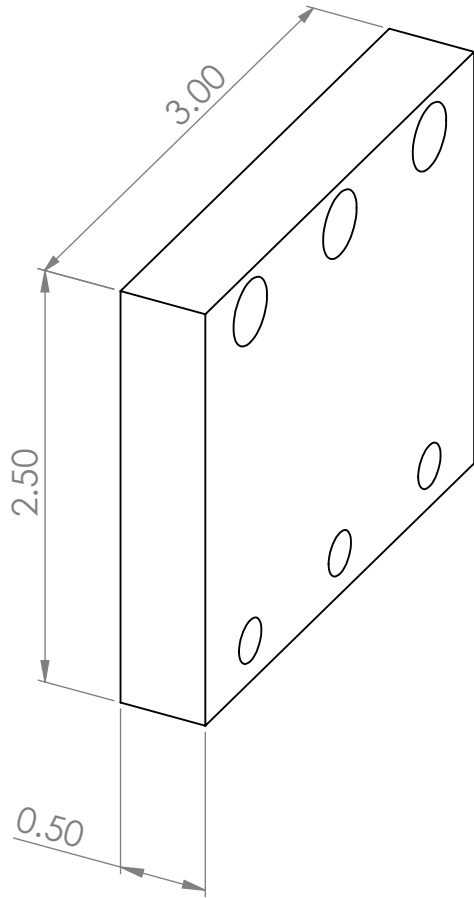


Dimensions are that corresponding
to a 24 well tissue culture plate, I
will provide the plate for your review

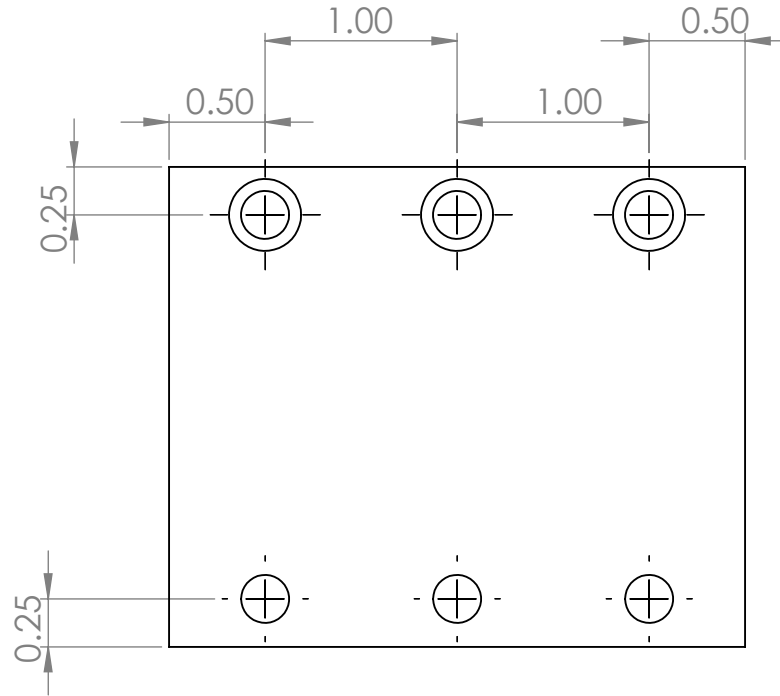
Corners on cut should be $R < 3\text{mm}$ ($< 0.11"$)

The bottom surface of this part must be smooth so that it can slide along another piece of metal

PART NAME: Stage B
QUANTITY DESIRED: 2



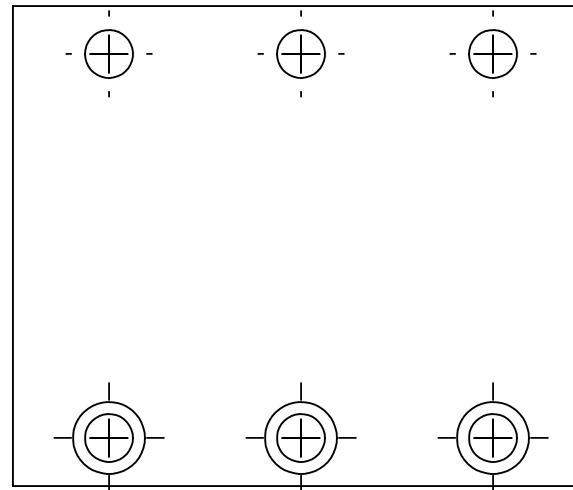
View from the Front



Top: Threaded counterbore
for screws entering
on this side

Bottom: threaded hole for
screws that entering on
opposite side

View from the Back

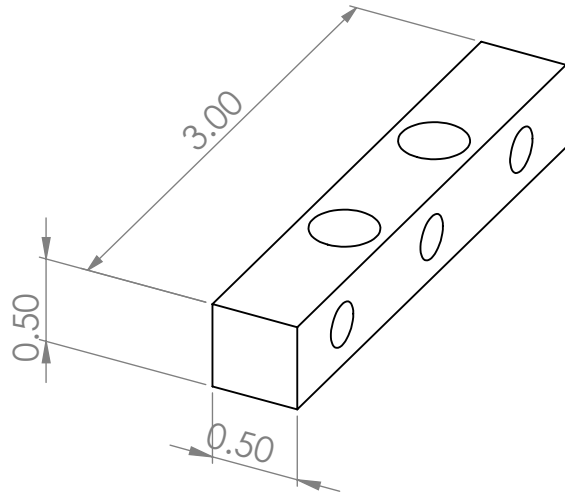


Top: threaded hole for
screws that entering on
opposite side

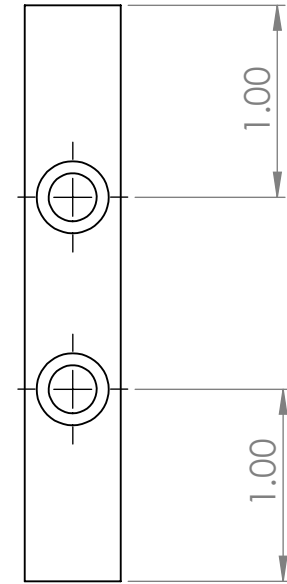
Bottom: Threaded
counterbore
for screws entering
on this side

All screws holes are threaded at 1/4"-20
Counterbores must be such that screws do not protrude past the edge of the part!

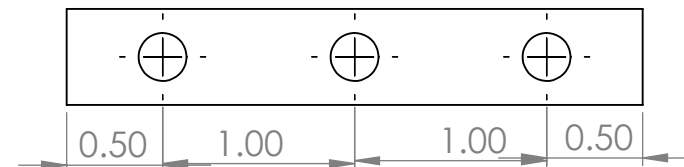
PART NAME: Stage C
QUANTITY DESIRED: 2



Top View:
Threaded counterbore
for screws
going through the part

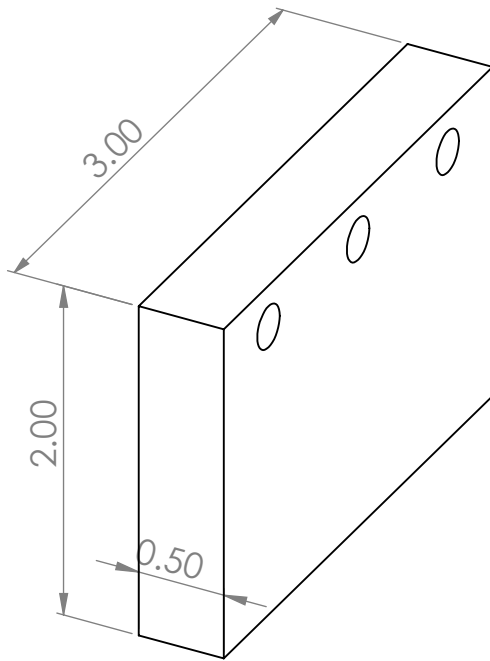


Side View:
Threaded holes for screws going through part

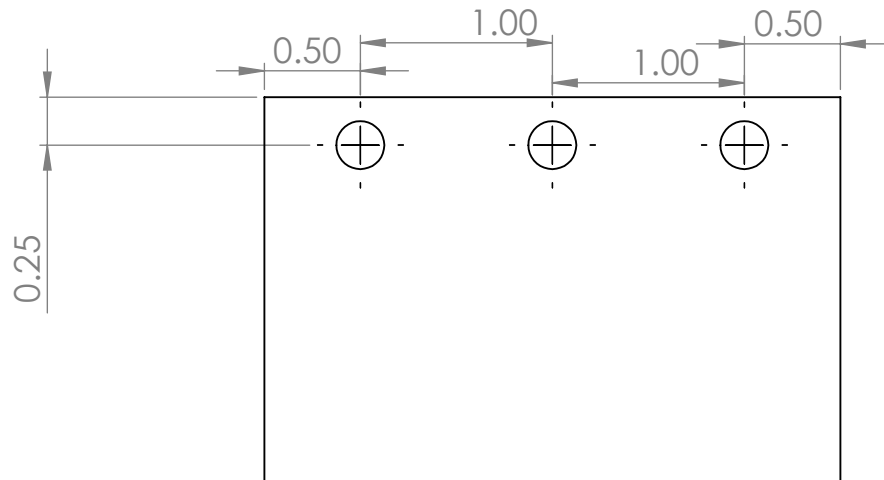


All screw holes are threaded at 1/4"-20

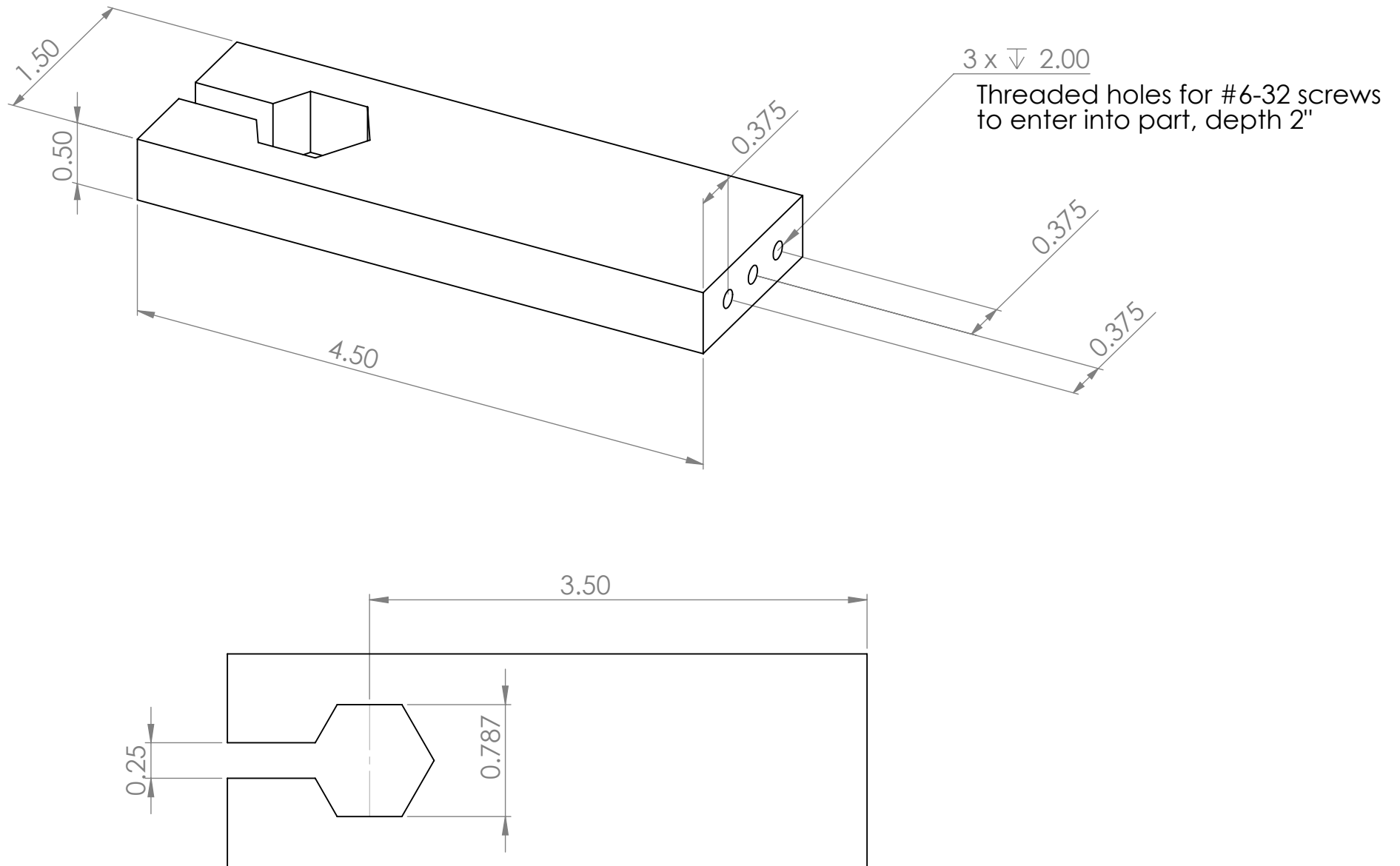
PART NAME: Stage D
QUANTITY DESIRED: 2



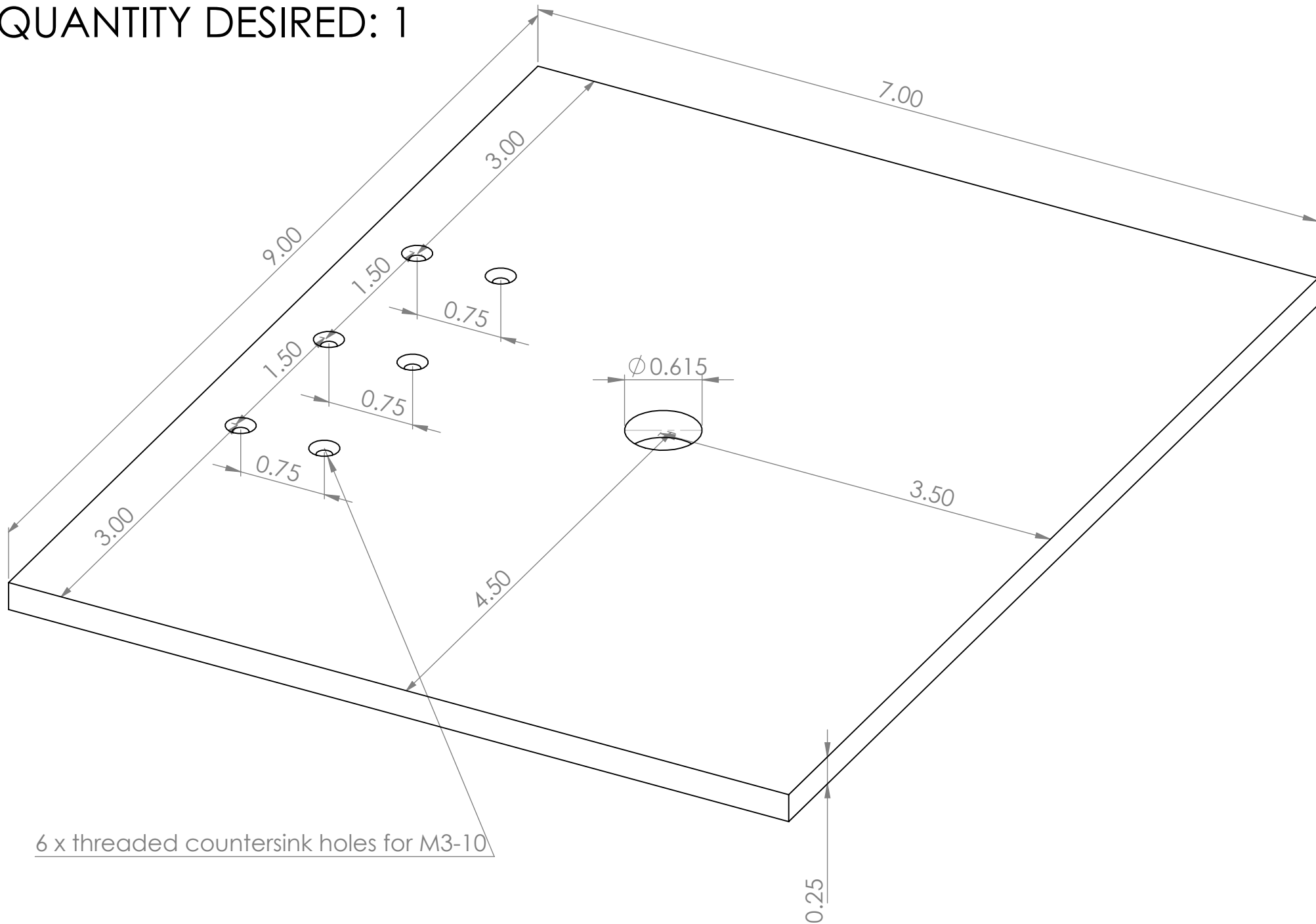
Front View: threaded holes for 1/4"-20 screws
that run through the part



PART NAME: Transducer Holder
QUANTITY DESIRED: 1

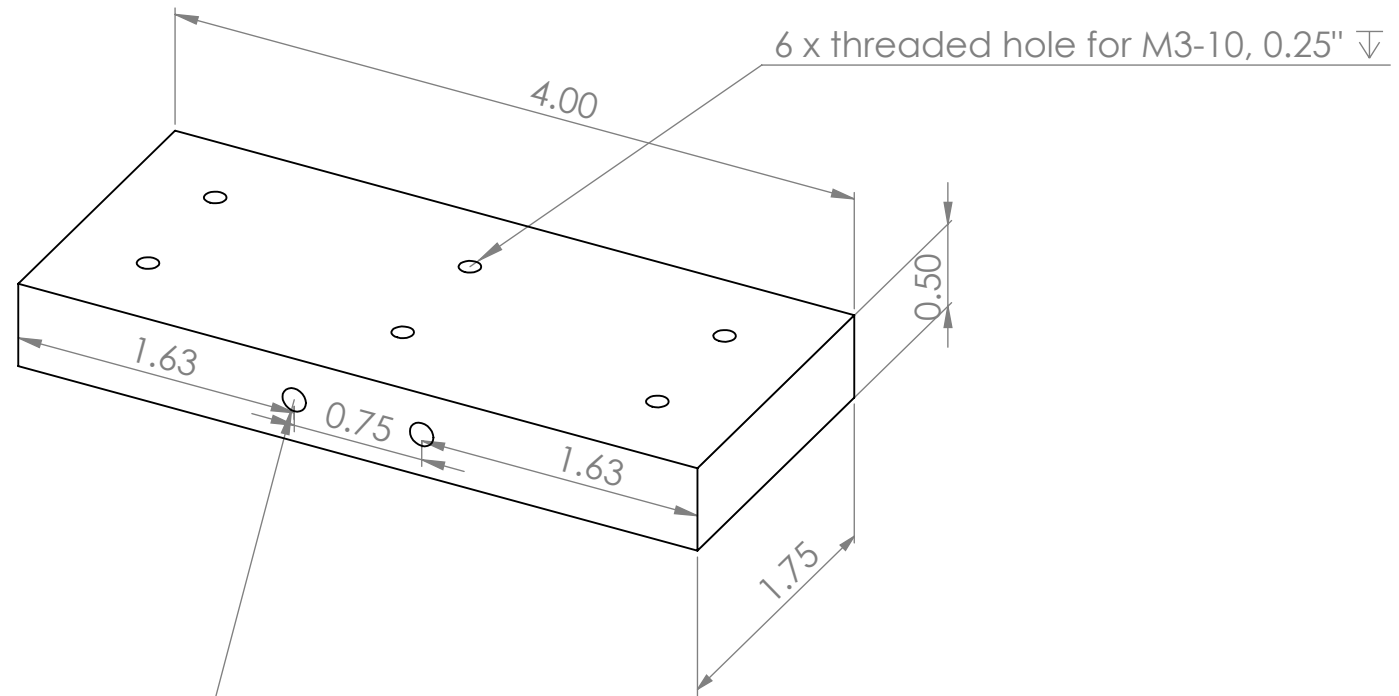


PART NAME: Aperature Stage A
QUANTITY DESIRED: 1



PART NAME: Aperature Stage B

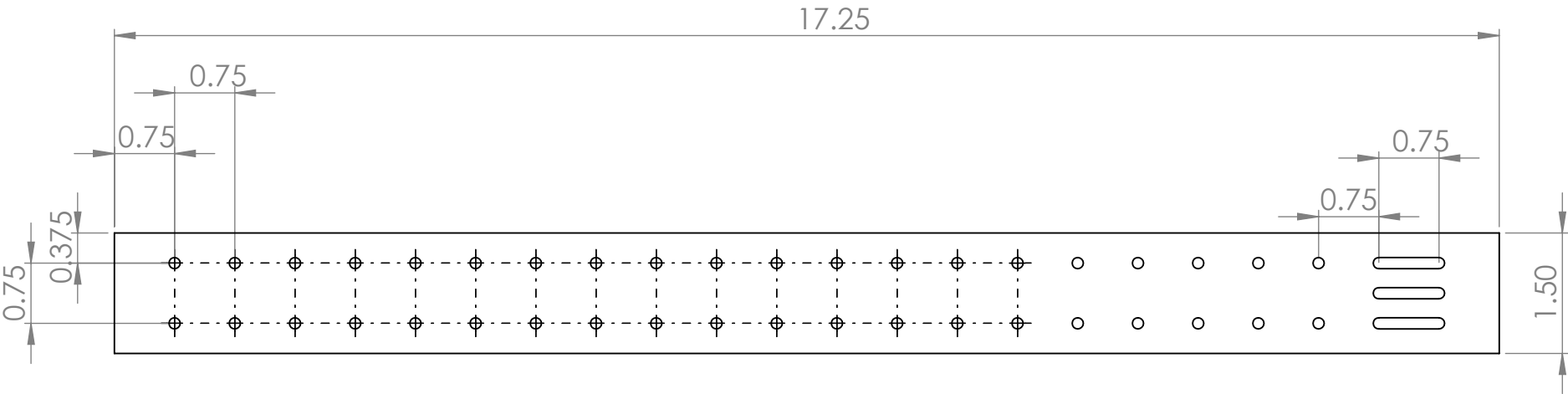
QUANTITY DESIRED: 1



2 x threaded hole for #6-32 THRU ALL

PART NAME: Translator
QUANTITY DESIRED: 1

Thickness of metal part: 0.5"



All these holes are evenly spaced, go through the part and are threaded for #6-32

These slots have the same diameter as the #6-32 holes and go through the part